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#### Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: PROCESS FOR PRODUCING A SILICA-REINFORCED RUBBER COMPOUND

#### (57) Abstract

(30) Priority Data:

In a process for manufacturing a tyre compound comprising a polymer base. silica and a silica-binding agent, in a batch mixing device, a blend comprising the materials mentioned is processed together with various ingredients, while continuously checking that the curves for the power supplied, the energy absorbed and the temperature inside the mixer are within a range of predetermined values, so as to avoid or at least substantially reduce the systematic checks on the final compound, preliminary to giving clearance for the reproduction of the product and the process. The process also involves controlling the power and temperature curves by means of adjusting the number of rotations of the rotors and the movements of a piston, which is included in the device, in one direction or in the opposite direction against the blend being processed, so as to keep the process parameters for the blend within defined ranges of values.

